

Problem Statement-4

```
package datastructures;
public class SelectionSort {
    public static void main(String[] args) {
        int[] arr = {9,6,3,1,2,4,5};
        int length = arr.length;
        selectionSort(arr);
        System.out.println("The sorted elements are:");
        for(int i:arr){
            System.out.println(i);
        }
    }
    public static void selectionSort(int[] arr){
        for(int i=0;i<arr.length-1;i++){
            int index =i;
            for(int j=i+1;j<arr.length;j++){
                if(arr[j]<arr[index]){
                    index =j;
                }
            }
            int smallNumber = arr[index];
            arr[index]= arr[i];
            arr[i]= smallNumber;
        }
    }
}
```

```
1 package datastructures;
2
3 public class SelectionSort {
4
5     public static void main(String[] args) {
6
7         int[] arr = {9,6,3,1,2,4,5};
8         int length = arr.length;
9         selectionSort(arr);
10        System.out.println("The sorted elements are:");
11        for(int i:arr){
12
13            System.out.println(i);
14        }
15    }
16
17    public static void selectionSort(int[] arr){
18
19        for(int i=0;i<arr.length-1;i++){
20
21            int index =i;
22            for(int j=i+1;j<arr.length;j++){
23                if(arr[j]<arr[index]){
24
25                    index =j;
26                }
27            }
28        }
29    }
30 }
```

<terminated> SelectionSort [Java Application] C:\Users\Swaroop\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.7.v20230425-1502\jre\bin\javaw.exe (15-May-2023 10:00:00 AM)

The sorted elements are:

1
2
3
4
5
6
9